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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. Flow control for limited buffer multicast
Danzig, P.B.;
[Software Engineering, IEEE Transactions on](#)
Volume 20, Issue 1, Jan. 1994 Page(s):1 - 12
Digital Object Identifier 10.1109/32.263751
[AbstractPlus](#) | Full Text: [PDF\(1020 KB\)](#) IEEE JNL
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- ☐ 2. Differentiation, QoS guarantee, and optimization for real-time traffic over networks
Yang Xiao; Yi Pan;
[Parallel and Distributed Systems, IEEE Transactions on](#)
Volume 16, Issue 6, June 2005 Page(s):538 - 549
Digital Object Identifier 10.1109/TPDS.2005.70
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- ☐ 3. Contention free data transfers in IEEE 802.11 ad-hoc wireless LAN protocol
Khanna, V.K.; Gupta, H.M.; Maheshwari, S.;
[TENCON 2003. Conference on Convergent Technologies for Asia-Pacific Region](#)
Volume 3, 15-17 Oct. 2003 Page(s):1062 - 1066 Vol.3
Digital Object Identifier 10.1109/TENCON.2003.1273410
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- ☐ 4. One dimensional cellular network with "spatial-ALOHA" protocol
Fedortsov, S.P.; Linnartz, J.P.M.G.;
[Personal, Indoor and Mobile Radio Communications, 1995. PIMRC'95. 'Wireless: the Information Superhighway', Sixth IEEE International Symposium on](#)
Volume 2, 27-29 Sept. 1995 Page(s):886 - 890 vol.2
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IEEE CNF IEEE Conference Proceeding

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- ☐ 1. **Ultimate instability of exponential back-off protocol for acknowledgment-transmission control of random access communication channels**
 Aldous, D.;
[Information Theory, IEEE Transactions on](#)
 Volume 33, Issue 2, Mar 1987 Page(s):219 - 223
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- ☐ 2. **Introducing packet segmentation for the IEEE 802.11b throughput enhancement in the presence of Bluetooth**
 Wang Feng; Nallanathan, A.; Garg, H.K.;
[Vehicular Technology Conference, 2004. VTC 2004-Spring, 2004 IEEE 59th](#)
 Volume 4, 17-19 May 2004 Page(s):2252 - 2256 Vol.4
 Digital Object Identifier 10.1109/VETECS.2004.1390675
[AbstractPlus](#) | Full Text: [PDF\(660 KB\)](#) IEEE CNF
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- ☐ 3. **New analytical model for the TCP throughput in wireless environment**
 Katsuhiro, N.; Okada, H.; Yamazato, T.; Katayama, M.; Ogawa, A.;
[Vehicular Technology Conference, 2001. VTC 2001 Spring, IEEE VTS 53rd](#)
 Volume 3, 6-9 May 2001 Page(s):2128 - 2132 vol.3
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1 [Floor acquisition multiple access \(FAMA\) for packet-radio networks](#)



Chane L. Fullmer, J. J. Garcia-Luna-Aceves

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.45 MB)

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A family of medium access control protocols for single-channel packet radio networks is specified and analyzed. These protocols are based on a new channel access discipline called floor acquisition multiple access (FAMA), which consists of both carrier sensing and a collision-avoidance dialogue between a source and the intended receiver of a packet. Control of the channel (the floor) is assigned to at most one station in the network at any given time, and this station is guaranteed to be able to ...

2 [An adaptive wireless local area network protocol that improves throughput via adaptive control of direct sequence spread spectrum parameters](#)



Barry E. Mullins, Nathaniel J. Davis, Scott F. Midkiff

September 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: pdf(1.71 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

We develop and analyze an elegant, opportunistic medium access control (MAC) protocol based on the proposed MAC standard for wireless local area networks (WLAN)---IEEE 802.11. Our adaptation of 802.11 is called CATER (Code Adapts To Enhance Reliability) and allows communicating stations to reconfigure their transceivers to use a longer pseudo-noise (PN) code when retransmissions are unsuccessful over a degraded channel. Results show that our protocol continues to function, permitting up to 14 pe ...


3 [MACAW: a media access protocol for wireless LAN's](#)



Vaduvur Bharghavan, Alan Demers, Scott Shenker, Lixia Zhang

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, a wide variety of mobile computing devices has emerged, including portables, palmtops, and personal digital assistants. Providing adequate network connectivity for these devices will require a new generation of wireless LAN technology. In this paper we study media access protocols for a single channel wireless LAN being developed at Xerox Corporation's Palo Alto Research Center. We start with the MACA media access protocol first proposed by Karn [9] and later refined by Bib ...

4 [FAMA-PJ: a channel access protocol for wireless LANs](#)



Chane L. Fullmer, J. J. Garcia-Luna-Aceves

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Publisher: ACM Press

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5 [Floor acquisition multiple access \(FAMA\) in single-channel wireless networks](#)



J. J. Garcia-Luna-Aceves, Chane L. Fullmer

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

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The FAMA-NCS protocol is introduced for wireless LANs and ad-hoc networks that are based on a single channel and asynchronous transmissions (i.e., no time slotting). FAMA-NCS (for floor acquisition multiple access with non-persistent carrier sensing) guarantees that a single sender is able to send data packets free of collisions to a given receiver at any given time. FAMA-NCS is based on a three-way handshake between sender and receiver in which the sender uses non-persistent carrier sensing ...

6 [Performance comparison of battery power consumption in wireless multiple access protocols](#)



Jyh-Cheng Chen, Krishna M. Sivalingam, Prathima Agrawal

December 1999 **Wireless Networks**, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

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7 [The transport layer: tutorial and survey](#)



Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(261.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables. < ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol,

transport service

8 On the behavior of different TCP algorithms over a wireless channel with correlated packet losses



Farooq Anjum, Leandros Tassiulas
May 1999 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '99**, Volume 27 Issue 1

Publisher: ACM Press

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9 TCP over wireless with link level error control: analysis and design methodology



Hemant M. Chaskar, T. V. Lakshman, U. Madhow
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Publisher: IEEE Press

Full text available:  [pdf\(234.33 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: TCP, link-layer protocols, performance analysis, rayleigh fading, wireless networks

10 M-TCP: TCP for mobile cellular networks



Kevin Brown, Suresh Singh
October 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


Transport connections set up over wireless links are frequently plagued by problems such as - high bit error rate (BER), frequent disconnections of the mobile user, and low wireless bandwidth that may change dynamically. In this paper, we study the effects of frequent disconnections and low variable bandwidth on TCP throughput and propose a protocol that addresses this problem. We discuss the implementation (in NetBSD) of our protocol called M-TCP and compare its performance against other mobile ...

11 Modeling TCP throughput: a simple model and its empirical validation



Jitendra Padhye, Victor Firoiu, Don Towsley, Jim Kurose
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we develop a simple analytic characterization of the steady state throughput, as a function of loss rate and round trip time for a bulk transfer TCP flow, i.e., a flow with an unlimited amount of data to send. Unlike the models in [6, 7, 10], our model captures not only the behavior of TCP's fast retransmit mechanism (which is also considered in [6, 7, 10]) but also the effect of TCP's timeout mechanism on throughput. Our measurements suggest that this latter behavior is important ...

12 Floor acquisition multiple access with collision resolution



Rodrigo Garcés, J. J. Garcia-Luna-Aceves

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Modeling TCP Reno performance: a simple model and its empirical validation



Jitendra Padhye, Victor Firoiu, Donald F. Towsley, James F. Kurose

April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Publisher: IEEE Press

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Keywords: TCP, empirical validation, modeling, retransmission timeouts

14 A unified wireless LAN architecture for real-time and non-real-time communication services



Sunghyun Choi, Kang G. Shin

February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Publisher: IEEE Press

Full text available: [pdf\(298.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: MAC protocol, QoS-sensitive communication, admission tests, dynamic time-division duplexing (D-TDD), location-dependent errors, polling, priority scheduling, wireless LAN

15 Energy-efficient wireless ATM design



Paul J. M. Havinga, Gerard J. M. Smit, Martimus Bos

June 2000 **Mobile Networks and Applications**, Volume 5 Issue 2

Publisher: Kluwer Academic Publishers

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16 The effect of mobile IP handoffs on the performance of TCP



Anne Fladenmuller, Ranil De Silva

May 1999 **Mobile Networks and Applications**, Volume 4 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(76.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile IP is a standard for handling routing for hosts that have moved from their home network. This paper studies the costs of the Mobile IP handoff that occurs when a mobile host moves between networks. Experiments were carried out with Mobile IP and TCP over varying network conditions to observe the effect of handoffs on the transmission. This paper shows that although Mobile IP may be appropriate for current applications, its long handoff periods make it unsuitable for the future.


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1 [Stability of binary exponential backoff](#)


 Jonathan Goodman, Albert G. Greenberg, Neal Madras, Peter March
 June 1988 **Journal of the ACM (JACM)**, Volume 35 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.42 MB\)](#)
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Binary exponential backoff is a randomized protocol for regulating transmissions on a multiple-access broadcast channel. Ethernet, a local-area network, is built upon this protocol. The fundamental theoretical issue is stability: Does the backlog of packets awaiting transmission remain bounded in time, provided the rates of new packet arrivals are small enough? It is assumed $n \geq 2$ stations share the channel, each having an infinite buffer where packets accumulate while $t \dots$

2 [Floor acquisition multiple access \(FAMA\) for packet-radio networks](#)


 Chane L. Fullmer, J. J. Garcia-Luna-Aceves
 October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

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3 [An adaptive wireless local area network protocol that improves throughput via adaptive control of direct sequence spread spectrum parameters](#)


 Barry E. Mullins, Nathaniel J. Davis, Scott F. Midkiff
 September 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We develop and analyze an elegant, opportunistic medium access control (MAC) protocol based on the proposed MAC standard for wireless local area networks (WLAN)---IEEE 802.11. Our adaptation of 802.11 is called CATER (Code Adapts To Enhance Reliability) and allows communicating stations to reconfigure their transceivers to use a longer pseudo-noise (PN) code when retransmissions are unsuccessful over a degraded channel. Results show that our protocol continues to function, permitting up to 14 pe ...

4 [FAMA-PJ: a channel access protocol for wireless LANs](#)



Chane L. Fullmer, J. J. Garcia-Luna-Aceves

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

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5 [Floor acquisition multiple access \(FAMA\) in single-channel wireless networks](#)



J. J. Garcia-Luna-Aceves, Chane L. Fullmer

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The FAMA-NCS protocol is introduced for wireless LANs and ad-hoc networks that are based on a single channel and asynchronous transmissions (i.e., no time slotting). FAMA-NCS (for floor acquisition multiple access with non-persistent carrier sensing) guarantees that a single sender is able to send data packets free of collisions to a given receiver at any given time. FAMA-NCS is based on a three-way handshake between sender and receiver in which the sender uses non-persistent carrier sensin ...


6 [MACAW: a media access protocol for wireless LAN's](#)



Vaduvur Bharghavan, Alan Demers, Scott Shenker, Lixia Zhang

October 1994 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications SIGCOMM '94**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, a wide variety of mobile computing devices has emerged, including portables, palmtops, and personal digital assistants. Providing adequate network connectivity for these devices will require a new generation of wireless LAN technology. In this paper we study media access protocols for a single channel wireless LAN being developed at Xerox Corporation's Palo Alto Research Center. We start with the MACA media access protocol first proposed by Karn [9] and later refined by Bib ...

7 [Design and performance evaluation of a distributed contention control\(DCC\) mechanism for IEEE 802.11 wireless local area networks](#)



Luciano Bononi, Marco Conti, Lorenzo Donatiello

October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile multimedia**

Publisher: ACM Press

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8 Performance comparison of battery power consumption in wireless multiple access protocols



Jyh-Cheng Chen, Krishna M. Sivalingam, Prathima Agrawal
December 1999 **Wireless Networks**, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

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9 QoS provided by the IEEE 802.11 wireless LAN to advanced data applications: a simulation analysis



G. Anastasi, L. Lenzini
March 2000 **Wireless Networks**, Volume 6 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(230.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

IEEE 802.11 is a Media Access Control ∥MAC) protocol which has been standardized by IEEE for Wireless Local Area Networks ∥WLANs). The IEEE 802.11 MAC protocol offers two types of services to its users: synchronous and asynchronous. This paper presents an in‐depth analysis, by simulation, of the asynchronous part alone. The analysis is performed by considering station data traffic patterns ∥hereafter advanced data traffic) which have a very similar s ...

10 Performance modeling of asynchronous data transfer methods of IEEE 802.11 MAC protocol



Harshal S. Chhaya, Sanjay Gupta
August 1997 **Wireless Networks**, Volume 3 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(696.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To satisfy the needs of wireless data networking, study group 802.11 was formed under IEEE project 802 to recommend an international standard for Wireless Local Area Networks (WLANs). A key part of standard are the Medium Access Control (MAC) protocol needed to support asynchronous and time bounded delivery of data frames. It has been proposed that unslotted Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) be the basis for the IEEE 802.11 WLAN MAC protocols. We conduct perfo ...

11 Traffic placement policies for multi-band network



K. J. Maly, E. C. Foudriat, D. Game, R. Mukkamala, C. M. Overstreet
August 1989 **ACM SIGCOMM Computer Communication Review , Symposium**

proceedings on Communications architectures & protocols SIGCOMM '89, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently protocols have been introduced that enable the integration of synchronous traffic (voice or video) and asynchronous traffic (data) and extend the size of local area networks without loss in speed or capacity. One of these is DRAMA, a multiband protocol based on broadband technology. It provides dynamic allocation of bandwidth among clusters of nodes in the total network. In this paper, we propose and evaluate a number of traffic placement policies for such networks. Metrics used fo ...

12 Floor acquisition multiple access with collision resolution





Rodrigo Garcés, J. J. Garcia-Luna-Aceves

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13** An efficient packet sensing MAC protocol for wireless networks

Andrew Muir, J. J. Garcia-Luna-Aceves

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(641.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Group Allocation Multiple Access with Packet-Sensing (GAMA-PS) protocol for scheduling real-time and datagram traffic in a wireless LAN is specified and analyzed. By maintaining a dynamically-sized cycle that changes in length depending on the amount of network traffic, GAMA-PS is able to efficiently control channel access while ensuring that there are no collisions of data packets. Each cycle contains a contention period and a group-transmission period; a station with data to send comp ...

14 Spectrum sharing under the asynchronous UPCS etiquette: the performance of collocated systems under heavy load

Ivan Vukovic, John McKown

October 1997 **Wireless Networks**, Volume 3 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(223.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently the FCC opened three 10 MHz bands for unlicensed use. In order to operate in UPCS bands, devices must comply with rules known as the UPCS etiquette (United States Code of Federal Regulations, Title 47, Part 15(d)). In this paper we study channel sharing between two or more collocated systems under the asynchronous UPCS etiquette. In particular we show that under heavy load individual systems have a tendency to hold the channel for hundreds of milliseconds, thus blocking all traffic ...

15 A unified wireless LAN architecture for real-time and non-real-time communication services

Sunghyun Choi, Kang G. Shin

February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Publisher: IEEE Press

Full text available: [pdf\(298.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: MAC protocol, QoS-sensitive communication, admission tests, dynamic time-division duplexing (D-TDD), location-dependent errors, polling, priority scheduling, wireless LAN

16 A fiber optic hypermesh for SIMD/MIMD machines

Ted Szymanski

November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


A fiber optic multidimensional mesh-based network for SIMD and MIMD multiprocessors is proposed. For the basic building block, a novel distributed optical switch is proposed; The switch requires 50 % fewer lasers/receivers than previous WDM optical crossbars and uses a novel random-access scheme which supports prioritized traffic. To implement very large networks using lasers with limited tunability (or electronic crossbars of small degree) we propose arranging switches into a novel n -dim ...

17 Energy-efficient wireless ATM design

Paul J. M. Havinga, Gerard J. M. Smit, Martimus Bos

June 2000 **Mobile Networks and Applications**, Volume 5 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(137.85 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)




18 The effect of mobile IP handoffs on the performance of TCP

Anne Fladenmuller, Ranil De Silva

May 1999 **Mobile Networks and Applications**, Volume 4 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(76.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Mobile IP is a standard for handling routing for hosts that have moved from their home network. This paper studies the costs of the Mobile IP handoff that occurs when a mobile host moves between networks. Experiments were carried out with Mobile IP and TCP over varying network conditions to observe the effect of handoffs on the transmission. This paper shows that although Mobile IP may be appropriate for current applications, its long handoff periods make it unsuitable for the future.

19 TCP over wireless with link level error control: analysis and design methodology

Hemant M. Chaskar, T. V. Lakshman, U. Madhow

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Publisher: IEEE Press

Full text available:  [pdf\(234.33 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: TCP, link-layer protocols, performance analysis, rayleigh fading, wireless networks


20 The transport layer: tutorial and survey



Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(261.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol,

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	"6285662"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:22
L2	1073	(back\$off) and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:23
L3	0	(back\$off) and re\$transmission and (odd near4 integer) and (even near4 integer)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:23
L4	186	(back\$off) and re\$transmission and (odd and even)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:23
L5	102	(back\$off) and re\$transmission and (odd and even) and un\$success\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:24
L6	101	(back\$off) and re\$transmission and (odd and even) and un\$success\$6 and delay\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:24
L7	36	(back\$off) and re\$transmission and (odd near4 value) and un\$success\$6 and delay\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:25
L8	2	(back\$off) and re\$transmission and (even near4 value) and un\$success\$6 and delay\$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:25
L9	50	(back\$off) and re\$transmission and (even near4 value)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:25
L10	9	(back\$off) and re\$transmission and (even near4 value) and (odd near4 value)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/01 16:26
S1	2	((("6473855") or ("6594682"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/06 14:58
S2	1	("6614799").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/06 15:09
S3	1	("6285662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/06 16:11
S4	1	("6172983").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/07 15:49
S5	1	("6513110").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/07 17:54

EAST Search History

S6	1	"6336212".PN.	USPAT	OR	OFF	2003/11/07 15:50
S7	1	"6058420".PN.	USPAT	OR	OFF	2003/11/07 16:25
S8	1	"5790844".PN.	USPAT	OR	OFF	2003/11/07 16:25
S9	1	"5748951".PN.	USPAT	OR	OFF	2003/11/07 16:26
S10	1	"5475852".PN.	USPAT	OR	OFF	2003/11/07 16:26
S11	1	"5414853".PN.	USPAT	OR	OFF	2003/11/07 16:26
S12	3	((("6069891") or ("6111873") or ("6078580")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/07 17:56
S13	9	java\$phone	US-PGPUB; USPAT	OR	ON	2003/11/07 18:03
S14	1	"6055441".PN.	USPAT	OR	OFF	2003/11/07 18:02
S15	1	"6055424".PN.	USPAT	OR	OFF	2003/11/07 18:02
S16	1	"5983117".PN.	USPAT	OR	OFF	2003/11/07 18:03
S17	1	"5933778".PN.	USPAT	OR	OFF	2003/11/07 18:03
S18	1	"5852773".PN.	USPAT	OR	OFF	2003/11/07 18:03
S19	1	"5781612".PN.	USPAT	OR	OFF	2003/11/07 18:03
S20	3	(voip) and (java near3 phone)	US-PGPUB; USPAT	OR	ON	2003/11/07 18:06
S21	554	(voip) and "h.323"	US-PGPUB; USPAT	OR	ON	2003/11/07 18:06
S22	103	(voip) and "h.323" and java	US-PGPUB; USPAT	OR	ON	2003/11/07 18:07
S23	0	(voip) and "h.323" and java and (plustapi or plustcp)	US-PGPUB; USPAT	OR	ON	2003/11/07 18:08
S24	1	(voip) and "h.323" and (java near5 phone)	US-PGPUB; USPAT	OR	ON	2003/11/07 18:08
S25	4	(voip) and "h.323" and (java) and (directory near4 assistance)	US-PGPUB; USPAT	OR	ON	2003/11/07 18:16
S26	1	"6339594".PN.	USPAT	OR	OFF	2003/11/07 18:13
S27	1	"6327258".PN.	USPAT	OR	OFF	2003/11/07 18:13
S28	1	"6324183".PN.	USPAT	OR	OFF	2003/11/07 18:13
S29	1	"6278707".PN.	USPAT	OR	OFF	2003/11/07 18:13
S30	14	(voip) and "h.323" and (java) and (call near3 center)	US-PGPUB; USPAT	OR	ON	2003/11/07 18:49
S31	71	(voip) and "h.323" and (java) and tcp	US-PGPUB; USPAT	OR	ON	2003/11/07 18:49
S32	50	(voip) and "h.323" and (java) and tcp and gateway	US-PGPUB; USPAT	OR	ON	2003/11/07 19:44
S33	62	java near3 phone	US-PGPUB; USPAT	OR	ON	2003/11/07 18:57

EAST Search History

S34	1	(java near3 phone) and "h.323"	US-PGPUB; USPAT	OR	ON	2003/11/07 18:57
S35	3	(java near3 phone) and voip	US-PGPUB; USPAT	OR	ON	2003/11/07 19:02
S36	0	(java near3 phone) and cpg	US-PGPUB; USPAT	OR	ON	2003/11/07 19:02
S37	18	(java near3 phone) and gateway	US-PGPUB; USPAT	OR	ON	2003/11/07 19:11
S38	1	jphone	US-PGPUB; USPAT	OR	ON	2003/11/07 19:11
S39	199	(voip) and "h.323" and (call near3 gateway)	US-PGPUB; USPAT	OR	ON	2003/11/07 19:44
S40	22	(voip) and "h.323" and (call near3 gateway) and java	US-PGPUB; USPAT	OR	ON	2003/11/08 15:11
S41	1	"6415151".PN.	USPAT	OR	OFF	2003/11/07 19:55
S42	1	"6396820".PN.	USPAT	OR	OFF	2003/11/07 19:55
S43	1	"5999813".PN.	USPAT	OR	OFF	2003/11/07 19:56
S44	1	"5978672".PN.	USPAT	OR	OFF	2003/11/07 19:56
S45	1	"5978386".PN.	USPAT	OR	OFF	2003/11/07 19:58
S46	1	"5970059".PN.	USPAT	OR	OFF	2003/11/07 19:58
S47	1	"5822309".PN.	USPAT	OR	OFF	2003/11/07 19:59
S48	38	(voip).ti.	US-PGPUB; USPAT	OR	ON	2003/11/07 19:59
S49	16	((voip).ti.) and "h.323"	US-PGPUB; USPAT	OR	ON	2003/11/07 19:59
S50	0	(voip) and "h.323" and (call near3 gateway) and java and (window and aix)	US-PGPUB; USPAT	OR	ON	2003/11/08 15:12
S51	1	(voip) and "h.323" and java and (window and aix)	US-PGPUB; USPAT	OR	ON	2003/11/08 15:12
S52	1	(voip) and "h.323" and (window and aix)	US-PGPUB; USPAT	OR	ON	2003/11/08 15:13
S53	14	"h.323" and (window and aix)	US-PGPUB; USPAT	OR	ON	2003/11/08 15:13
S54	26	(back\$off near4 delay\$3) and (un\$success\$5 near4 transmission)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:17
S55	93	(back\$off near4 delay\$3) and (two near4 time)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:17
S56	29	(back\$off near4 delay\$3) and (two near4 time) and un\$\$\$success\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:17

EAST Search History

S57	22	(back\$off near4 delay\$3) and (two near4 time) and un\$\$success\$5 and less and greater and equal	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:20
S58	7	(back\$off near4 delay\$3) and (two near4 time) and un\$\$success\$5 and less and greater and equal and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:21
S59	27	(back\$off near4 algorithm) and (two near4 time) and un\$\$success\$5 and less and greater and equal and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:21
S60	0	(back\$off near4 algorithm) and ((two near4 time) near5 (less and greater and equal)) and un\$\$success\$5 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:22
S61	0	(back\$off near4 algorithm) and ((two near4 time) near5 (less and greater and equal)) and un\$\$success\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/21 19:22
S62	2	(back\$off near4 algorithm) and ((two near4 time) near5 (less or greater or equal)) and un\$\$success\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 07:54
S63	1	("6614799").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 07:59
S64	1	("6285662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 11:07
S65	2	((("6477565") or ("6546002"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/22 15:13
S66	107	(contention near4 window) and back\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:14
S67	23	(contention near4 window) and back\$off and equation	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:14
S68	2	(contention near4 window) and back\$off and equation and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:19
S69	4	(back\$off near4 window) and equation and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:20
S70	9	(back\$off near4 window) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:23

EAST Search History

S71	117	(back\$off near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:23
S72	51	(back\$off near4 window) and exponent\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:24
S73	12	(back\$off near4 window) and exponent\$3 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:32
S74	13	(back\$off near4 window) and preced\$3 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:35
S75	30	(back\$off near4 window) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:40
S76	48	(back\$off near4 window) and (less and greater and equal)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:42
S77	117	(back\$off near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:45
S78	7	(back\$off near4 window) and (@pd<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:45
S79	23	(back\$off near4 algorithm) and (window near4 adjust\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:52
S80	6	(back\$off near4 delay) and (window near4 adjust\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:53
S81	264	(back\$off near4 delay)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:53
S82	2	(back\$off near4 delay) and (preced\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:54
S83	7414	(content\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:54
S84	24	(content\$3 near4 window) and (back\$off near4 delay)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:57
S85	117	(content\$3 near4 window) and (back\$off)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:57

EAST Search History

S86	15	(content\$3 near4 window) and (back\$off) and formula\$2	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 15:57
S87	20	(content\$3 near4 window) and (back\$off) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:00
S88	13	(back\$off near4 function) and cdma	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:00
S89	51	(back\$off near4 function) and csma	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:00
S90	44	(back\$off near4 function) and csma and window	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:02
S91	68	(back\$off near4 function) and collision	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:02
S92	53	(back\$off near4 function) and collision and window	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:05
S93	107	(back\$off).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:08
S94	14	(back\$off).ti. and window	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 16:05
S95	17	(back\$off).ti. and (collision or collid\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:11
S96	265	(back\$off) and (dynamic\$5 near4 adjust\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:11
S97	70	(back\$off) and (dynamic\$5 near4 adjust\$3) and (window near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:11
S98	0	(back\$off) and (dynamic\$5 near4 adjust\$3) and (window near4 size) and (preced\$3 near4 delay)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:12
S99	6	(back\$off) and (dynamic\$5 near4 adjust\$3) and (window near4 size) and (preced\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:13
S100	87	(back\$off near5 (window or delay or algorithm)) and (dynamic\$5 near4 adjust\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:14

EAST Search History

S10 1	33	(back\$off near5 (window or delay or algorithm)) and (dynamic\$5 near4 adjust\$3) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:22
S10 2	143	(back\$off near5 (window or delay or algorithm)) and (formula\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:22
S10 3	2	(back\$off near5 (window or delay or algorithm)) and (preced\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:22
S10 4	10	(back\$off near5 (window or delay or algorithm)) and (preced\$3 near4 (back\$off or delay or window))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:23
S10 5	73	(back\$off near5 (window or delay or algorithm)) and (formula or formular)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:24
S10 6	73	(back\$off near5 (window or delay or algorithm)) and (formula or formular)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:24
S10 7	41	(back\$off near5 (window or delay or algorithm)) and (formula\$2) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:54
S10 8	127	(back\$off near5 (window))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:54
S10 9	31	(back\$off near5 (window)) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:55
S11 0	20	(back\$off near5 (window)) and (@ad<"20000831") and adjust\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:57
S11 1	56	(contention near5 (window)) and (@ad<"20000831") and adjust\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:57
S11 2	14	(contention near5 (window)) and (@ad<"20000831") and adjust\$3 and back\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 17:58
S11 3	11	(back\$off near4 window).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:00
S11 4	17	(contention near4 window).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:01
S11 5	453	(back\$off).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:01

EAST Search History

S11 6	27	(back\$off near10 window).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:02
S11 7	48	(contention near10 window).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:06
S11 8	33	(contention near5 window near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:07
S11 9	44	(back\$\$off near5 window near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:17
S12 0	1	"6006017".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:10
S12 1	1	"6144645".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:10
S12 2	1	"5131010".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:10
S12 3	1	"6430193".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:11
S12 4	1	"6385773".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:11
S12 5	1	"6285665".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:11
S12 6	1	"6075787".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:12
S12 7	1	"5828663".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:12
S12 8	1	"5809046".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:15
S12 9	1	"5790533".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:16
S13 0	1	"5729542".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:16
S13 1	1	"5606725".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:17
S13 2	1	"5570347".PN.	USPAT; USOCR	OR	ON	2005/04/22 18:17
S13 3	107	(back\$\$off).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:17
S13 4	2	(back\$\$off same dynamic\$5).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:18

EAST Search History

S13 5	4	(back\$off same adjust\$4).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/22 18:18
S13 6	123	(back\$off near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:17
S13 7	62	(back\$off near4 window) and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:18
S13 8	19	(back\$off near4 window) and re\$transmission and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:29
S13 9	194	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:29
S14 0	7	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (delay near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:31
S14 1	3	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (contention near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:32
S14 2	2	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (preced\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:33
S14 3	0	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (preced\$3 near4 contention)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:33
S14 4	1	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (capture near4 affect)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:34
S14 5	37	(back\$off near4 algorithm) and re\$transmission and (@ad<"20000831") and (capture near4 effect)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 17:52
S14 6	14	(back\$off near4 algorithm) near5 modif\$7	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:06
S14 7	71	(back\$off near4 algorithm) near5 control\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:06
S14 8	18	(back\$off near4 algorithm) near5 control\$4 and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:08

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S14 9	51	(back\$off near4 algorithm) near5 control\$4 and calculat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:08
S15 0	40	(back\$off near4 algorithm) near5 control\$4 and calculat\$3 and conventional	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:10
S15 1	0	(back\$off near4 algorithm) near5 ceiling and floor	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:10
S15 2	0	(back\$off near4 algorithm) near5 ceiling	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:11
S15 3	54	(back\$off near4 algorithm) and ceiling	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:13
S15 4	40	(back\$off near4 algorithm) and ceiling and floor	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:11
S15 5	32	(back\$off near4 algorithm) and (index) and odd and even	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:14
S15 6	222	(back\$off near4 (window or contention))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:15
S15 7	19	(back\$off near4 (window or contention)) and index and odd and even	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:16
S15 8	30	(back\$off near4 (window or contention)) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:17
S15 9	23	(back\$off near4 (window or contention)) near4 adjust\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:19
S16 0	7	(back\$off near4 (window or contention)) near4 dynamic\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:20
S16 1	1	(back\$off near4 (window or contention)) near4 formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:26
S16 2	1	("6125792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/29 18:24
S16 3	1	("5734833").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/29 18:25

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S16 4	1	("20020154653").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/29 18:26
S16 5	6	(back\$off near4 (window or contention)) near4 adapt\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:28
S16 6	11	(back\$off near4 (window or contention)) near4 calculat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:29
S16 7	222	(back\$off near4 (window or contention))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:29
S16 8	152	(back\$off near4 (window or contention)) and ("370"/\$.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:29
S16 9	149	(back\$off near4 (window or contention)) and ("370"/\$.ccls.) and control\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:30
S17 0	76	(back\$off near4 (window or contention)) and ("370"/\$.ccls.) and exponent\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:31
S17 1	60	(back\$off near4 (window or contention)) and ("370"/\$.ccls.) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:38
S17 2	55	(back\$off near4 (window or contention)) and (contention near4 resolution)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:44
S17 3	43	(back\$off near4 (window or contention)) and (collision near4 resolution)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:47
S17 4	92	(back\$off near4 (window or contention or period)) and (collision near4 resolution)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:47
S17 5	23	(back\$off near4 (window or contention or period)) and (collision near4 resolution) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:49
S17 6	0	(back\$off near4 (window or contention or period)) and (less near4 than) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:52
S17 7	72	(back\$off) and (collision near4 resolution) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:53
S17 8	2	(back\$off) and (collision near4 resolution) and (@ad<"20000831") and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:54

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S17 9	12	(back\$\$off) and (collision near4 resolution) and (@ad<"20000831") and equation	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:58
S18 0	249	(binary near4 exponential near4 back\$\$off)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:58
S18 1	32	(binary near4 exponential near4 back\$\$off) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 18:59
S18 2	147	(binary near4 exponential near4 back\$\$off) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:10
S18 3	3	cabeb and tbeb	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:32
S18 4	279610	binary exponential back\$\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:32
S18 5	249	binary near4 exponential near4 back\$\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:32
S18 6	193	S185 and "370"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:33
S18 7	107	back\$\$off.ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:33
S18 8	10	S187 and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:36
S18 9	99	stop\$4 near4 back\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:42
S19 0	21	S189 and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:37
S19 1	401	(back\$\$off) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:42
S19 2	94	(back\$\$off) and formula and (window near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:44
S19 3	30	(back\$\$off) and formula and (window near4 size) and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:43

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S19 4	34	(back\$off near4 size near4 (window or contention))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:45
S19 5	5	(back\$off near4 size near4 (window or contention)) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:51
S19 6	1	"6144645".PN.	USPAT; USOCR	OR	ON	2005/04/29 19:46
S19 7	1	"5131010".PN.	USPAT; USOCR	OR	ON	2005/04/29 19:46
S19 8	1	"6430193".PN.	USPAT; USOCR	OR	ON	2005/04/29 19:46
S19 9	1	"6385773".PN.	USPAT; USOCR	OR	ON	2005/04/29 19:47
S20 0	1	"6285665".PN.	USPAT; USOCR	OR	ON	2005/04/29 19:47
S20 1	2	(back\$off) and (preced\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:51
S20 2	67	(back\$off) and (previous\$3 near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:51
S20 3	0	(back\$off) and (previous\$3 near4 window) and (less near4 than)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:54
S20 4	249	(binary near4 exponential near3 back\$off)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:54
S20 5	231	(binary near4 exponential near3 back\$off) and function	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:56
S20 6	72	(binary near4 exponential near3 back\$off) and (feedback)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:56
S20 7	147	(binary near4 exponential near3 back\$off) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:04
S20 8	38	(binary near4 exponential near3 back\$off) and (@ad<"20000831") and feedback	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:56
S20 9	26	(binary near4 exponential near3 back\$off) and (@ad<"20000831") and stable	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 19:57
S21 0	679	(back\$off) and (control\$4 near5 (window or contention or period))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:04

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S21 1	58	(back\$\$off near7 re\$transmission) and (control\$4 near5 (window or contention or period))	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:10
S21 2	1028	(contention near4 resolution)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:10
S21 3	58	(contention near4 resolution) and accelerat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:10
S21 4	36	(contention near4 resolution) and accelerat\$3 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:16
S21 5	144	(contention near4 resolution) and back\$\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:16
S21 6	81	(contention near4 resolution) and back\$\$off and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:22
S21 7	401	back\$\$off and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:22
S21 8	10	(back\$\$off near5 window) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:24
S21 9	22	(back\$\$off near5 period) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/29 20:25
S22 0	33	(back\$\$off near5 contention) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:06
S22 1	20	(back\$\$off near5 delay) and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:07
S22 2	191	(back near4 off near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:08
S22 3	94	(back near4 off near4 window) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:08
S22 4	18	(back near4 off near4 window) and (@ad<"20000831") and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:10
S22 5	5	(back near4 off near4 window) and (@ad<"20000831") and odd and even	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:10

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S22 6	20	(back near4 off near4 window) and (@ad<"20000831") and index\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:11
S22 7	4	(back near4 off near4 window) and (@ad<"20000831") and exponential	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:15
S22 8	6	(back near4 off near4 window) and "w(i)"	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:15
S22 9	0	(back near4 off near4 window) and "w(n)"	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:16
S23 0	591	(back\$off) and exponential	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:16
S23 1	203	(back\$off near4 (window or contention or period or delay)) and exponential	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 09:17
S23 2	104	(back\$off near4 (window or contention or period or delay)) and exponential and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:09
S23 3	1	"6522661".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:34
S23 4	1	"6222850".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:35
S23 5	1	"6205153".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:35
S23 6	1	"5854700".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:38
S23 7	1	"5790603".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:38
S23 8	1	"5692127".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:39
S23 9	1	"5526355".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:39
S24 0	1	"5446735".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:44
S24 1	1	"5418784".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:44
S24 2	1	"5398244".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:45
S24 3	1	"6172984".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:45
S24 4	1	"6205153".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:46

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S24 5	1	"5978385".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:46
S24 6	1	"5940399".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:46
S24 7	1	"5734833".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:47
S24 8	1	"6501764".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:48
S24 9	1	"6434112".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:48
S25 0	1	"5726984".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:51
S25 1	1	"5706430".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:52
S25 2	1	"5636223".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:52
S25 3	1	"5555260".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:53
S25 4	1	"5394433".PN.	USPAT; USOCR	OR	ON	2005/04/30 09:53
S25 5	14965	((contention near4 window) or cw) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:09
S25 6	9	((contention near4 window) and cw) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:10
S25 7	38	((back\$\$off) and cw) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:12
S25 8	35	((back\$\$off)).ti. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:13
S25 9	29	((contention same resolution)).ti. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:14
S26 0	6	((contention same resolution)).ti. and (@ad<"20000831") and back\$\$off	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:14
S26 1	29	((contention same resolution)).ti. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:15
S26 2	5	((contention same resolution)).ti. and (@ad<"20000831") and window	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/30 10:25

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S26 3	2	"6658565"	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 09:07
S26 4	107	(back\$off).ti.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:10
S26 5	35	(back\$off).ti. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:45
S26 6	715	(back\$off) and collision and re\$transmission	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:46
S26 7	352	(back\$off) and collision and re\$transmission and window and delay	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:47
S26 8	271	(back\$off) and collision and re\$transmission and window and delay and contention	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:47
S26 9	45	(back\$off) and collision and re\$transmission and window and delay and contention and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 16:47
S27 0	17	(back\$off) and collision and re\$transmission and window and delay and contention and formula and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:03
S27 1	313	(back\$off) and collision and re\$transmission and "370"/\$.ccls. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:03
S27 2	138	(back\$off near5 (window or delay or period)) and collision and re\$transmission and "370"/\$.ccls. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:03
S27 3	89	(back\$off near5 (window or delay or period)) and contention and collision and re\$transmission and "370"/\$.ccls. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:36
S27 4	12	(back\$off near5 (window or delay or period)) and contention and collision and re\$transmission and "709"/\$.ccls. and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:37
S27 5	111	(back\$off) and (contention near4 window)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:37
S27 6	14	(back\$off) and (contention near4 window) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:40

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S27 7	81	(back\$off) and (contention near4 resolution) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:47
S27 8	79	(back\$off) and (contention) and fairness	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:48
S27 9	0	(back\$off) and (contention) and fairness and (@ad<"2000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:48
S28 0	79	(back\$off) and (contention) and fairness	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:48
S28 1	35	(back\$off) and (contention) and fairness and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:50
S28 2	316	(back\$off) and (contention) and collision and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:51
S28 3	26	(back\$off) and (contention) and collision and formula and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:53
S28 4	217	(back\$off) and (contention) and collision and equal and less and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:53
S28 5	83	(back\$off) and (contention) and collision and equal and less and un@successful and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:56
S28 6	61	(back\$off) and (contention) and collision and preced\$3 and future and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:58
S28 7	2	(back\$off) and (contention) and collision and ((preced\$3 or future) near4 window) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:57
S28 8	226	(back\$off) and (contention) and collision and re\$transmit\$4 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 17:59
S28 9	6	(back\$off) and (contention) and collision and (obtain\$3 near4 delay) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:01
S29 0	252	(back\$off) and (contention) and collision and algorithm and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:01
S29 1	120	(back\$off near5 algorithm) and (contention) and collision and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:05

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S29 2	48	(re\$transmission near5 algorithm) and (contention) and collision and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:34
S29 3	579	((back\$off or contention) near4 (window or delay)) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:34
S29 4	7	((back\$off or contention) near4 (window or delay)) near5 improv\$3 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:37
S29 5	7	((back\$off or contention) near4 (window or delay)) near5 modif\$7 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:40
S29 6	0	((back\$off or contention) near4 (window or delay)) and (caption near4 effect) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:40
S29 7	26	((back\$off or contention) near4 (window or delay)) and (capture near4 effect) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/02 18:47
S29 8	18	((back\$off or contention) near4 (window or delay)) near5 adjust\$3 and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:40
S29 9	68	((back\$off or contention) near4 (window or delay) near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:49
S30 0	1	"6529520".PN.	USPAT; USOCR	OR	ON	2005/05/03 09:43
S30 1	74	((back\$off or contention) near4 (window or delay or period) near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:51
S30 2	31	((collision) near4 (window or delay or period) near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:54
S30 3	114	(back\$off near4 size)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:54
S30 4	0	(back\$off near4 size) and (@ad<"2000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:55
S30 5	19	(back\$off near4 size) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:59
S30 6	16	(back\$off near4 size) and (@pd<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 09:59

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S30 7	300	(back\$off near4 algorithm) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:00
S30 8	14	(back\$off near4 algorithm near5 adjust\$4) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:01
S30 9	3	(back\$off near4 algorithm near5 dynamic\$5) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:02
S31 0	107	(back\$off near4 interval) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:06
S31 1	2364	(back\$off) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:06
S31 2	1724	(back\$off) and (@ad<"20000831") and function	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:06
S31 3	121	(back\$off) and (@ad<"20000831") and formula	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:34
S31 4	38	(back\$off) and (@ad<"20000831") and formula and adjust\$4 and dynamic\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:07
S31 5	306	(back\$off) and (@ad<"20000831") and exponent\$4	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:34
S31 6	252	(back\$off near5 exponent\$4) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:35
S31 7	105	(back\$off near5 exponent\$4) and (@ad<"20000831") and adjust\$4 and dynamic\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:46
S31 8	83	(back\$off near5 exponent\$4 near5 truncat\$3) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 10:46
S31 9	43	(back\$off near4 (window or period or delay)) and (capture near4 effect)	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:35
S32 0	0	(back\$off near4 (window or period or delay)) and (capture near4 effect) and (@ad<"2000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:36
S32 1	31	(back\$off near4 (window or period or delay)) and (capture near4 effect) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:37

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S32 2	17	(back\$off near4 (window or period or delay)) and (capture near4 effect) and (@ad<"20000831") and decreas\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:42
S32 3	29	(back\$off) and (capture near4 effect) and (@ad<"20000831") and decreas\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:51
S32 4	1	("6215792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/03 15:43
S32 5	0	(back\$off near4 decreas\$3) and (capture near4 effect) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:51
S32 6	52	(back\$off) and (capture near4 effect) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 15:52
S32 7	18	(back\$off) and (capture near4 effect) and (@ad<"20000831") and decrement\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 16:05
S32 8	30	(back\$off near4 decrement\$3) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 16:21
S32 9	1	("6285662").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/03 16:19
S33 0	47	(back\$off near4 decreas\$3) and (@ad<"20000831")	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/03 17:14
S33 1	1	"5436903".PN.	USPAT; USOCR	OR	ON	2005/05/03 16:52
S33 2	1	"5353287".PN.	USPAT; USOCR	OR	ON	2005/05/03 16:52
S33 3	1	"5319641".PN.	USPAT; USOCR	OR	ON	2005/05/03 16:52
S33 4	1	"4598285".PN.	USPAT; USOCR	OR	ON	2005/05/03 16:53
S33 5	1	"4412326".PN.	USPAT; USOCR	OR	ON	2005/05/03 16:53
S33 6	1	("6215792").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/03 17:14